1634

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/500,135

Input Set : A:\A688931.app
Output Set : N:\CRF3\08012000\I500135.raw

Does Not Comp.
Corrected Diskette Number

pp 4-5

FYI:
gtg codes for
Valine

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/500,135

Input Set: A:\A688931.app
Output Set: N:\CRF3\08012000\I500135.raw

FEATURE:
NAME/KEY: unsure
LOCATION: (678)..(680)
OTHER INFORMATION: The nnn at positions 678 through 680 represents
Xaa, which in a preferred embodiment (gca) is to
code for alanine, but which may also code for
serine.

FEATURE:
NAME/KEY: unsure
LOCATION: (681)..(683)
OTHER INFORMATION: The nnn at positions 681 through 683 represents
Xaa, which in a preferred embodiment (tca) is to
code for serine, but which may also code for
alanine.

FEATURE:
NAME/KEY: unsure
LOCATION: (708)..(710)
OTHER INFORMATION: The nnn at positions 708 through 710 represents
Xaa, which in a preferred embodiment (gct) is to
code for alanine, but which may also code for
aspartic acid.

FEATURE:
NAME/KEY: unsure
LOCATION: (711)..(713)
OTHER INFORMATION: The nnn at positions 711 through 713 represents
Xaa, which in a preferred embodiment (gac) is to
code for aspartic acid, but which may also be
for alanine.

FEATURE:
NAME/KEY: unsure
LOCATION: (888)..(890)
OTHER INFORMATION: The nnn at positions 888 through 890 represents
Xaa, which in a preferred embodiment (act) is to
code for threonine, but which may also code for
serine.

FEATURE:
NAME/KEY: unsure
LOCATION: (891)..(893)
OTHER INFORMATION: The nnn at positions 891 through 893 represents
Xaa, which in a preferred embodiment (tcn) is to
code for serine, but which may also code for
threonine.

FEATURE:
NAME/KEY: unsure
LOCATION: (1167)..(1169)
OTHER INFORMATION: The nnn at positions 1167 through 1169 represents
Xaa, which in a preferred embodiment (gaa) is to
code for glutamic acid but which may also code
for alanine.

RAW SEQUENCE LISTING
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Input Set : A:\A688931.app
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SEQUENCE: 1

123 ttattctgca aatgaaaaaa aggagaggat aaaga nnn aga ggc aaa aaa gta   113
124   Xaa Arg Gly Lys Lys Val

W--> 163 gta gca ggc gga gcc agc atg gtt cct tct gaa aca nnn nnn ttc caa   593
W--> 164 Val Ala Gly Gly Ala Ser Met Val Pro Ser Glu Thr Xaa Xaa Phe Gln

W--> 167 gac nnn aac tct cac gga act cac gtt gcc ggc aca gtt gcg gct ctt   641
W--> 168 Asp Xaa Asn Ser His Gly Thr His Val Ala Gly Thr Val Ala Ala Leu

W--> 171 aat aac tca atc ggt gta tta ggc gtt gcg cca agc nnn nnn ctt tac   689
W--> 172 Asn Asn Ser Ile Gly Val Leu Gly Val Ala Pro Ser Xaa Xaa Leu Tyr

W--> 175 gct gta aaa gtt ctc ggt nnn nnn ggt tcc ggc caa tac agc tgg atc   737
W--> 176 Ala Val Lys Val Leu Gly Xaa Xaa Gly Ser Gly Gln Tyr Ser Trp Ile

RAW SEQUENCE LISTING
PATENT APPLICATION   US/09/500,135

Input Set   A:\A688931.app
Output Set: N:\CRF3\08012000\1500135.raw

```
       105           125                  1.              1.5
191  nat aaa acc gtt tca tcc n... atc gta atc att a.a aca tcc att aac   881
     ... Asp Lys Ala Val ... Ser ...  Val Val Val Val Ala ... Ala Gln Asn
     184  11.           115                150                155
W--> 191  gaa ggc nnn nnn ggc agc tca agc aca gtg ggc tac cct ggt aaa tac   929
W--> 192  Glu Gly Xaa Xaa Gly Ser Ser Ser Thr Val Gly Tyr Pro Gly Lys Tyr
     1..              190                   1.               1.7
     1..  ... tct gtc att aca ... ... ... tt. ... ... ... aac ... ... g.t   ...
     ...  Pro Ser Val Ile ... Val Gly ... Val Arg Ser Ser Asn Ser Ser Ala
     1.               17.                 1.                  18.
     1..  tct ttc tca aac ata aac ... aac ctt att atc ... gaa cct aac ata   10..
     ...  Ser Phe Ser Ser Val Gly Ile Ile Leu Arg Val Met Ala Pro Gly Val
     ...              19.                 1..                  2..
     1..  tct atc aac att aca ... ... ... aac ... ... tat att ... tat ... ...   1..
     ...  Val Ser Ile Gln Ser Thr Leu Pro Gly Asn Leu Lys Gly Ala Tyr Asn Gly
     2..              295                    ...                 ...
     2..  aac tca att ... tct ... ... gtt ... gaa ... ... gct tta att ...   1121
     ...  Asn Thr Ser Met Ala Ser Pro ... Val Ala Gly Ala Ala Ala Leu Ile Leu
     ...  ...                      ...                          ...
W--> 211  tct aag cac ccg aac tgg aca aac act caa gtc cgc agc agt tta nnn   1169
W--> 212  Ser Lys His Pro Asn Trp Thr Asn Thr Gln Val Arg Ser Ser Leu Xaa
     ...              1.                   ...                  250
     ...  Asn Thr Thr Thr Ile Leu Gly Asp Ser Phe ... ... ... Ile Thr Leu
     ...              ...                  ...                  ...
     ...  ... atc aac tta ... ... ... act ... ... ...   1..1
     ...  Ile Ile Asn Val Gln Thr Ala Ala Gln
     ...              ...

     ...                                                               1..1
     ...                                                               1..1
     ...                                                               1111
     ...                                                               11..
     ... SEQ ID No: 2
     ... LENGTH: ...
     ... TYPE: PRT
     ... ORGANISM: Bacillus myziliquefaciens
     ... SEQUENCE: 2
```

W--> 238 (Xaa) Arg Gly Lys Lys Val Trp Ile Ser Leu Leu Phe Ala Leu Ala Leu

see item 10 on Enn Summary sheet

```
240  Ile Ile Thr Met Ala Pro Gly Ser Thr Ser Ser Ala Gln Ala Ala Gly
     ...
     ...  Lys Ser Asn Gly Glu Lys Lys Tyr Ile Val Gly Phe Lys Gln Thr Met
     ...              ...                  ...
     251  Ser Thr Met Ser Ala Ala Lys Lys Lys Asp Val Ile Ser Glu Lys Gly
     ...
     ...  Gly Lys Val Gln Lys Gln Phe Lys Tyr Val Asp Ala Ala Ser Ala Thr
     ...              ...                  ...
     ...  Leu Asn Glu Lys Ala Val Lys Glu Leu Lys Lys Asp Pro Ser Val Ala
     ...              ...
```

RAW SEQUENCE LISTING
PATENT APPLICATION N   US/09/500,135

Input Set   A:\A688931.app
Output Set N:\CRF3\08012000\I500135.raw

W--> 258 Glu Thr Xaa Xaa Phe Gln Asp Xaa Asn Ser His Gly Thr His Val Ala

W--> 262 Pro Ser Xaa Xaa Leu Tyr Ala Val Lys Val Leu Gly Xaa Xaa Gly Ser

W--> 270 Val Ala Ala Ala Gly Asn Glu Gly Xaa Xaa Gly Ser Ser Ser Thr Val

W--> 282 Val Arg Ser Ser Leu Xaa Asn Thr Thr Thr Lys Leu Gly Asp Ser Phe

item 10

P·I

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.**

VERIFICATION SUMMARY
PATENT APPLICATION   US/09/500,135

A:\A688931.app
N:\CRE3\08012000\1500135.1aw